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FIG. 1

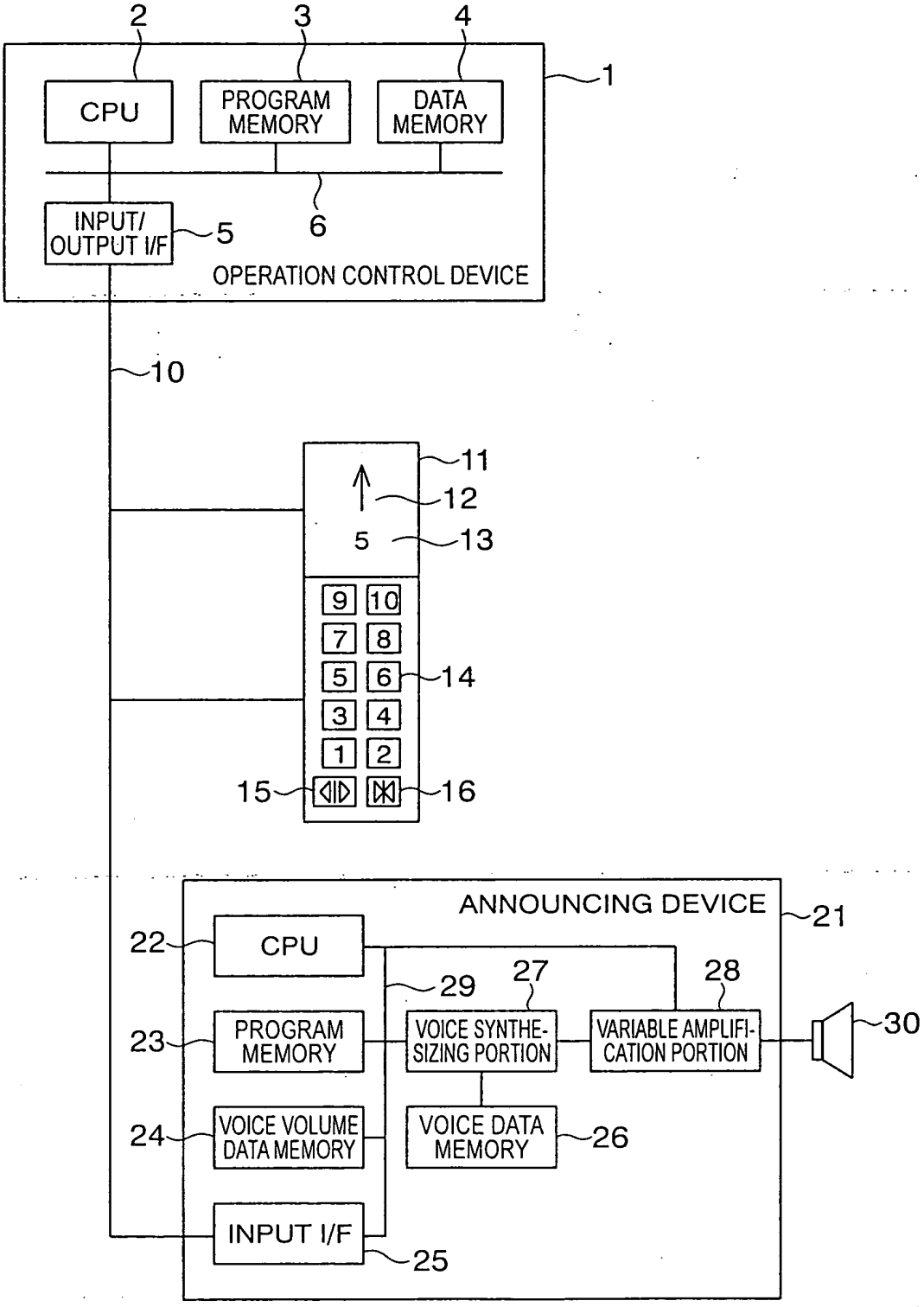

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FIG. 2

CONTROL CODE	CODE NUMBER	CONTENTS
CD	0000 0000	VOICE VOLUME ADJUSTMENT INVALIDATING COMMAND
CCa	0001 0000	COLLECTIVE VOICE VOLUME ADJUSTMENT COMMAND
CCdcg	0001 0001	DAYTIME DOOR-CLOSED CONDITION NORMAL ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCncg	0001 0010	NIGHTTIME DOOR-CLOSED CONDITION NORMAL ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCdog	0001 0011	DAYTIME DOOR-OPENED CONDITION NORMAL ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCnog	0001 0100	NIGHTTIME DOOR-OPENED CONDITION NORMAL ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCdce	0001 0101	DAYTIME DOOR-CLOSED CONDITION EMERGENCY ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCnce	0001 0110	NIGHTTIME DOOR-CLOSED CONDITION EMERGENCY ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCdoe	0001 0111	DAYTIME DOOR-OPENED CONDITION EMERGENCY ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCnoe	0001 1000	NIGHTTIME DOOR-OPENED CONDITION EMERGENCY ANNOUNCEMENT INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCdb	0001 1001	DAYTIME CRIME-PREVENTION BUZZER INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND
CCnb	0001 1010	NIGHTTIME CRIME-PREVENTION BUZZER INDIVIDUAL VOICE VOLUME ADJUSTMENT COMMAND

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FIG. 3

VOICE VOLUME CODE	CODE NUMBER	CONTENTS
V1u	1000 0001	1dB-INCREASE COMMAND
V2u	1000 0010	2dB-INCREASE COMMAND
V3u	1000 0011	3dB-INCREASE COMMAND
—	—	—
V10u	1000 1010	10dB-INCREASE COMMAND
—	—	—
V1d	1001 0001	1dB-DECREASE COMMAND
V2d	1001 0010	2dB-DECREASE COMMAND
V3d	1001 0011	3dB-DECREASE COMMAND
—	—	—
V10d	1001 1010	10dB-DECREASE COMMAND
—	—	—

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FIG. 4

VOICE VOLUME DATA	CONTENTS
Mdcg	DAYTIME DOOR-CLOSED CONDITION NORMAL ANNOUNCEMENT VOICE VOLUME DATA
Mncg	NIGHTTIME DOOR-CLOSED CONDITION NORMAL ANNOUNCEMENT VOICE VOLUME DATA
Mdog	DAYTIME DOOR-OPENED CONDITION NORMAL ANNOUNCEMENT VOICE VOLUME DATA
Mnog	NIGHTTIME DOOR-OPENED CONDITION NORMAL ANNOUNCEMENT VOICE VOLUME DATA
Mdce	DAYTIME DOOR-CLOSED CONDITION EMERGENCY ANNOUNCEMENT VOICE VOLUME DATA
Mnce	NIGHTTIME DOOR-CLOSED CONDITION EMERGENCY ANNOUNCEMENT VOICE VOLUME DATA
Mdce	DAYTIME DOOR-OPENED CONDITION EMERGENCY ANNOUNCEMENT VOICE VOLUME DATA
Mnce	NIGHTTIME DOOR-OPENED CONDITION EMERGENCY ANNOUNCEMENT VOICE VOLUME DATA
Mdb	DAYTIME CRIME-PREVENTION BUZZER VOICE VOLUME DATA
Mnb	NIGHTTIME CRIME-PREVENTION BUZZER VOICE VOLUME DATA

FIG. 5

ANNOUNCE-MENT CODE	CODE NUMBER	MESSAGE	VOICE VOLUME DATA	TIME OF DAY
M1	1000 0001	PRESS DESTINATION BUTTON.	Mdcg	DAYTIME
			Mncg	NIGHTTIME
M2	1000 0010	ELEVATOR IS VERY CROWDED. YOUR PATIENCE FOR A WHILE IS APPRECIATED.	Mdcg	DAYTIME
			Mncg	NIGHTTIME
M3	1000 0011	ELEVATOR WILL DESCEND.	Mdog	DAYTIME
			Mnog	NIGHTTIME
M4	1000 0100	ELEVATOR WILL ASCEND.	Mdog	DAYTIME
			Mnog	NIGHTTIME
M5	1000 0101	EARTHQUAKE: PLEASE GET OFF ONCE DOOR IS OPEN.	Mdce	DAYTIME
			Mnce	NIGHTTIME
M6	1000 0110	FIRE: PLEASE GET OFF ONCE DOOR IS OPEN.	Mdce	DAYTIME
			Mnce	NIGHTTIME
M7	1000 0111	BZZ X N TIMES (CRIME-PREVENTION BUZZER SOUND)	Mdb	DAYTIME
			Mnb	NIGHTTIME

Title: AUTOMATIC ANNOUNCING DEVICE FOR AN ELEVATOR
Inventors: Masao FUJITA
Atty Docket No.: 403510
Leydig, Voit & Mayer 202-737-6770
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FIG. 6

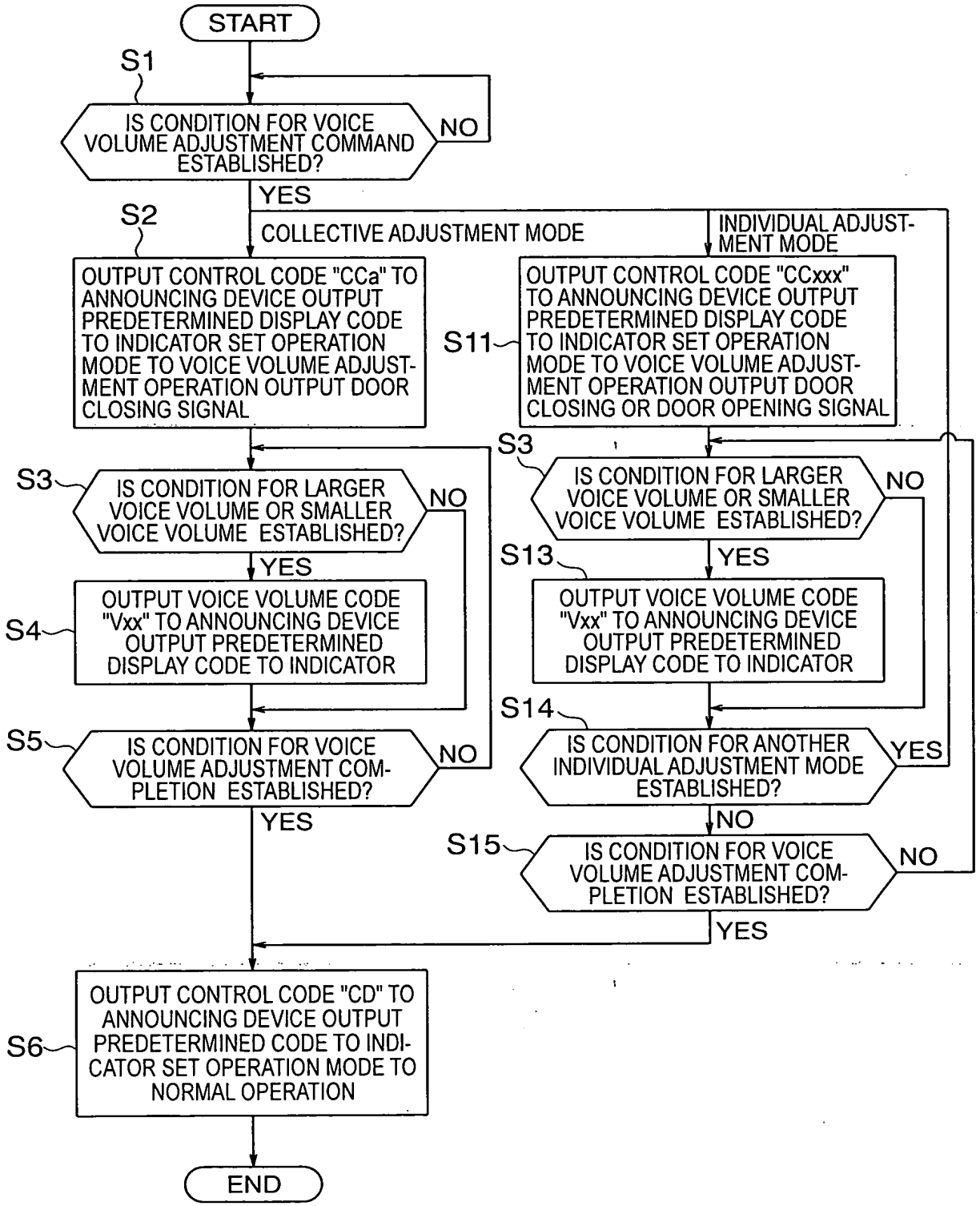
START
S1
IS CONDITION FOR VOICE VOLUME ADJUSTMENT COMMAND ESTABLISHED?
NO
YES
S2
COLLECTIVE ADJUSTMENT MODE
INDIVIDUAL ADJUSTMENT MODE
OUTPUT CONTROL CODE "CCa" TO ANNOUNCING DEVICE OUTPUT PREDETERMINED DISPLAY CODE TO INDICATOR SET OPERATION MODE TO VOICE VOLUME ADJUSTMENT OPERATION OUTPUT DOOR CLOSING SIGNAL
S11
OUTPUT CONTROL CODE "CCxxx" TO ANNOUNCING DEVICE OUTPUT PREDETERMINED DISPLAY CODE TO INDICATOR SET OPERATION MODE TO VOICE VOLUME ADJUSTMENT OPERATION OUTPUT DOOR CLOSING OR DOOR OPENING SIGNAL
S3
IS CONDITION FOR LARGER VOICE VOLUME OR SMALLER VOICE VOLUME ESTABLISHED?
NO
YES
S4
OUTPUT VOICE VOLUME CODE "Vxx" TO ANNOUNCING DEVICE OUTPUT PREDETERMINED DISPLAY CODE TO INDICATOR
S3
IS CONDITION FOR LARGER VOICE VOLUME OR SMALLER VOICE VOLUME ESTABLISHED?
NO
S13
YES
OUTPUT VOICE VOLUME CODE "Vxx" TO ANNOUNCING DEVICE OUTPUT PREDETERMINED DISPLAY CODE TO INDICATOR
S5
IS CONDITION FOR VOICE VOLUME ADJUSTMENT COMPLETION ESTABLISHED?
NO
YES
S14
IS CONDITION FOR ANOTHER INDIVIDUAL ADJUSTMENT MODE ESTABLISHED?
YES
NO
S15
IS CONDITION FOR VOICE VOLUME ADJUSTMENT COMPLETION ESTABLISHED?
NO
YES
S6
OUTPUT CONTROL CODE "CD" TO ANNOUNCING DEVICE OUTPUT PREDETERMINED CODE TO INDICATOR SET OPERATION MODE TO NORMAL OPERATION
END

FIG. 7

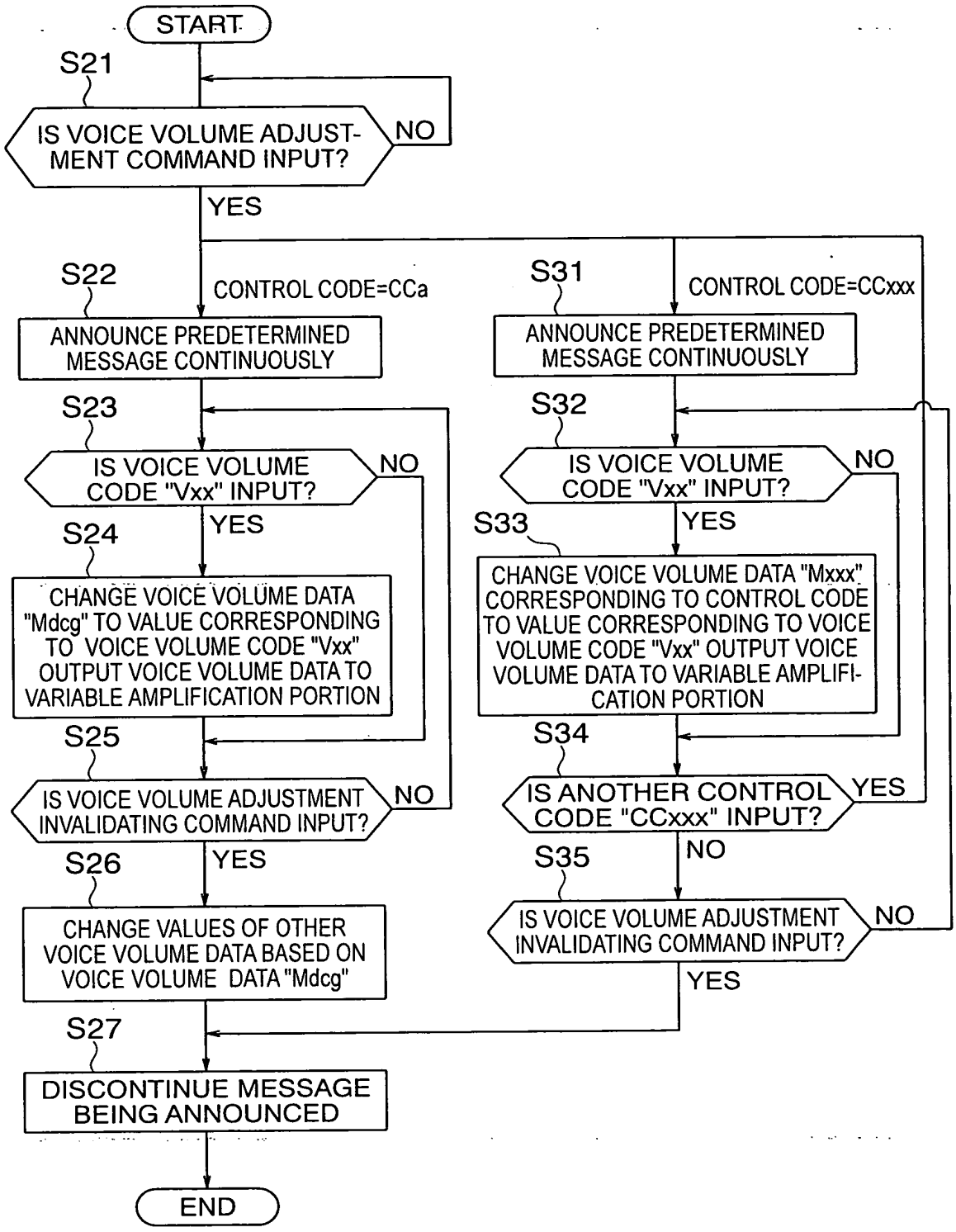
START
S21
IS VOICE VOLUME ADJUSTMENT COMMAND INPUT?
NO
YES
S22
CONTROL CODE=CCa
ANNOUNCE PREDETERMINED MESSAGE CONTINUOUSLY
S23
IS VOICE VOLUME CODE "Vxx" INPUT?
NO
YES
S24
CHANGE VOICE VOLUME DATA "Mdcg" TO VALUE CORRESPONDING TO VOICE VOLUME CODE "Vxx" OUTPUT VOICE VOLUME DATA TO VARIABLE AMPLIFICATION PORTION
S25
IS VOICE VOLUME ADJUSTMENT INVALIDATING COMMAND INPUT?
NO
YES
S26
CHANGE VALUES OF OTHER VOICE VOLUME DATA BASED ON VOICE VOLUME DATA "Mdcg"
S27
DISCONTINUE MESSAGE BEING ANNOUNCED
END
S31
CONTROL CODE=CCxxx
ANNOUNCE PREDETERMINED MESSAGE CONTINUOUSLY
S32
IS VOICE VOLUME CODE "Vxx" INPUT?
NO
YES
S33
CHANGE VOICE VOLUME DATA "Mxxx" CORRESPONDING TO CONTROL CODE TO VALUE CORRESPONDING TO VOICE VOLUME CODE "Vxx" OUTPUT VOICE VOLUME DATA TO VARIABLE AMPLIFICATION PORTION
S34
IS ANOTHER CONTROL CODE "CCxxx" INPUT?
YES
NO
S35
IS VOICE VOLUME ADJUSTMENT INVALIDATING COMMAND INPUT?
NO
YES

FIG. 8

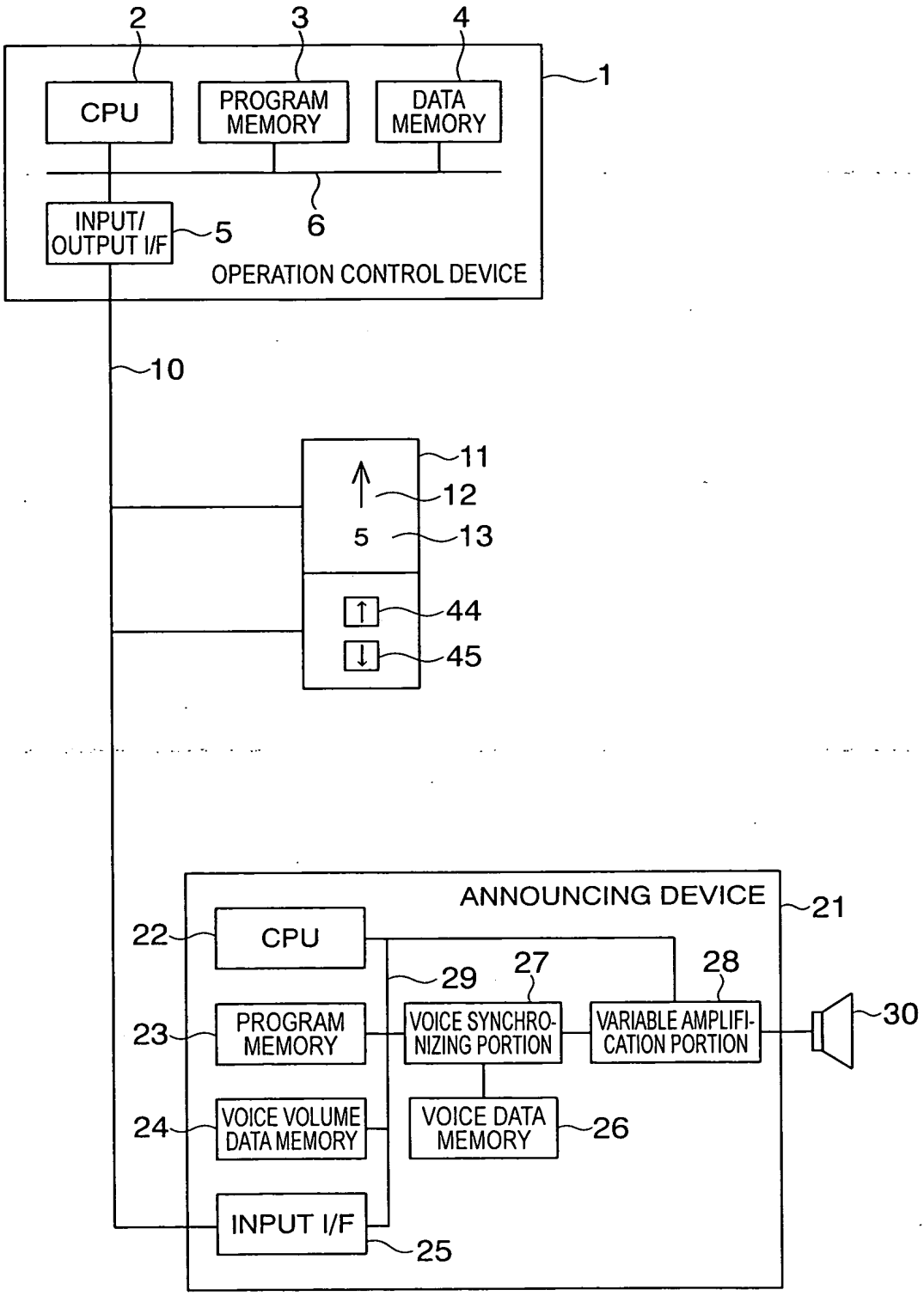
2
3
4
1
CPU
PROGRAM MEMORY
DATA MEMORY
INPUT/ OUTPUT I/F
5
6
OPERATION CONTROL DEVICE
10
11
12
5
13
44
45
ANNOUNCING DEVICE
21
22
CPU
29
27
28
23
PROGRAM MEMORY
VOICE SYNCHRO-NIZING PORTION
VARIABLE AMPLIFI-CATION PORTION
30
24
VOICE VOLUME DATA MEMORY
VOICE DATA MEMORY
26
INPUT I/F
25

FIG. 9

ANNOUNCE-MENT CODE	CODE NUMBER	MESSAGE	VOICE VOLUME CODE	TIME OF DAY
M1	1000 0001	ASCENDING ELEVATOR IS COMING.	Mdcg	DAYTIME
			Mncg	NIGHTTIME
M2	1000 0010	DESCENDING ELEVATOR IS COMING.	Mdcg	DAYTIME
			Mncg	NIGHTTIME
M3	1000 0011	ELEVATOR WILL DESCEND.	Mdog	DAYTIME
			Mnog	NIGHTTIME
M4	1000 0100	ELEVATOR WILL ASCEND.	Mdog	DAYTIME
			Mnog	NIGHTTIME
M5	1000 0101	ELEVATOR IS OUT OF SERVICE NOW.	Mdce	DAYTIME
			Mnce	NIGHTTIME
M7	1000 0111	BZZ X N TIMES (CRIME-PREVENTION BUZZER SOUND)	Mdb	DAYTIME
			Mnb	NIGHTTIME

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